

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/846,979	05/01/2001	W. Brian Darling	31428	3905
75	90 06/03/2003			
THOMAS B. LUEBBERING HOVEY, WILLIAMS, TIMMONS & COLLINS 2405 Grand, Suite 400			EXAMINER	
			NASH, BRIAN D	
Kansas City, MO 64108			ART UNIT	PAPER NUMBER
			3721	7
			DATE MAILED: 06/03/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Esa P		<u> </u>				
	Application No.	Applicant(s)				
Office Assistant Community	09/846,979	DARLING ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brian D Nash	3721				
The MAILING DATE of this c mmunication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 23 A	<u>pril 2003</u> .					
2a) This action is FINAL . 2b) ☑ Thi	is action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under a						
Disposition of Claims	Ex parte Quayle, 1900 O.D. 11, 4	00 0.0. 210.				
4) Claim(s) 1-33 is/are pending in the application.						
4a) Of the above claim(s) <u>31-33</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>31-33</u> are subject to restriction and/or	election requirement.					
Application Papers	_					
9) The specification is objected to by the Examiner		minor				
10) The drawing(s) filed on is/are: a) accept						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior application from the International But	reau (PCT Rule 17.2(a)).	_				
* See the attached detailed Office action for a list	, i					
14) Acknowledgment is made of a claim for domestic						
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesti 	• •					
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Trademark Office						

Art Unit: 3721

DETAILED ACTION

1. This action is in response to applicant's amendment received 23 April 2003. Examiner acknowledges changes to claims 1, 12, and the addition of new claims 22-33.

Election/Restrictions

2. Newly submitted claims 31-33 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: claims 31-33 are directed toward a method of using the apparatus as originally presented in claims 1-21.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 31-33 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-2, 4, 6, 11-12, 14, 16, 21-23, 26-27, and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by US 3,690,387 to Dixon. Dixon discloses the same invention including a rotation drive mechanism having a rotation motor (21) with first and second ports and a drive linkage (67) coupled thereto (see Fig. 1); first and second media lines (66) connected to

Application/Control Number: 09/846,979 Page 3

Art Unit: 3721

respective ports of the rotation motor; a float system (see Fig. 2) having a valve (63) interposed between the first and second media lines (66) and a control mechanism (64) that switches the valve between a closed position substantially isolating one media line from another and an open position wherein the first and second media lines (66) are in communication with each other (see column 6, lines 24-42); equalization of pressure between ports (66) permitting the rotating body (16) to rotate toward a side load (see column 8, lines 15-27); also included are a blocking valve (83); and a flow control device (79,82 – see column 7, lines 34-47) positioned in-line with the valve (63) which passively limits the flow rate of the pressurized fluid.

Regarding the amendments to claims 1 and 12 wherein the control mechanism further includes a manual actuation mechanism the examiner again refers to Dixon (see Fig. 3, greater detail of Fig. 2). Dixon discloses a control lever (119), which is actuated by an operator, for control valve (63) (see column 10, lines 39-42).

Regarding new claims 26 and 30, the examiner refers to Dixon (see column 11, lines 1-19 and column 13, line 40 to column 14, line 10) wherein Dixon discloses substantially automatic control of a side loading system when a predetermined pressure is exceeded as well as manual operation of a float system.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 3721

Claims 5, 7-10, 15, 17-20, 24-25, and 28-29 are rejected under 35 U.S.C. 103(a) as being 6. unpatentable over Dixon in view of US 4,093,091 to Gregg et al. As discussed above in paragraph 4 of this office action Dixon discloses the invention substantially as claimed but does not include float system having an electronic control mechanism, a tilt switch, an indicator coupled to the control mechanism, or an electrical relay between the control mechanism and the valve. However, Gregg teaches the use of an overload sensing means having an electronic transducer and logic system (see Gregg, column 2, lines 10-15); a strain gauge (72) and a switch (80) in association with valve (56) for detection of and tilt control; and indicator signals (A,B,C,D) – all for the purpose of providing the operator with notification prior to an overload situation. In view of Gregg, it would have been obvious to one having ordinary skill in the art to have provided Dixon's mechanical float control system with an electronic system including switches and indicators for control and notification of overloaded side load conditions for the purpose of providing a more reliable system because such mechanical elements alone may stick (such as valves) an render such systems inoperable (see Gregg, column 1, lines 33-41) as well as providing the operator with such notification means.

Regarding claims 9 and 19, examiners construes indicators, as disclosed by Gregg, to inherently incorporate either an audible or visible notification. While Gregg does not specifically disclose an audible or visual alarm, it is well known in the art that such indicators include such a notification mechanism (e.g. visual light on an operator console).

Regarding claims 24 and 28, Dixon discloses a flow control device (79,82 – see column 7, lines 34-47) positioned in-line with the valve (63) which passively limits the flow rate of the pressurized fluid. It would have been an obvious matter of design choice to regulate the flow

Art Unit: 3721

rate of the pressurized fluid via an orifice having dimensions that restrict and limit since the valve shuttle and land (79,82 respectively) serve the same function and produce the same results.

7. Claims 3 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dixon. As discussed above in paragraph 4 of this office action Dixon discloses the invention substantially as claimed but does not disclose the use of a pair of poppet-type solenoid valves interposed between the two ports of the rotary motor. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a poppet-type solenoid valve since the examiner takes Official Notice of the equivalence of a shuttle valve (63,64) and poppet-type solenoid valve for their use in the hydraulic system art and the selection of any of these known equivalents to a poppet-type solenoid valve would be within the level of ordinary skill in the art.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Raunisto, Finley et al., and Updegrave are cited to show related methods.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Nash whose telephone number is (703) 305-4959. The examiner can normally be reached on Monday Thursday from 8 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I. Rada can be reached at (703) 308-2187.

The fax numbers for this Group are:

Before Final

703-872-9302

After Final

703-872-9303

Customer Service

703-872-9301

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1148.

Rinaldi I. Rada

Supervisory Patent Examiner

Group 3700

Art Unit: 3721

Brian D. Nash 22 May 2003 Page 6